THE QUADRANGLE

A Newsletter for Alumni and Friends

College of Engineering

University of Hawaii at Manoa

Fall 1993

GCA supports construction program

The civil engineering department will soon hire a new instructor in construction engineering and management, thanks to generous funding from the General Contractors Association of Hawaii(GCA).

In an effort to bring stability and continuity to Hawaii's construction industry, the GCA has established an Education Foundation to support construction-related educational programs in Hawaii. The Foundation recently kicked off its two-year capital campaign to raise $1 million for the funding of these programs.

According to Thalia Choy, president of the GCA Education Foundation, the GCA is right on target with its fund-raising efforts. To date, the Foundation has raised about $360,000, roughly one-third of the $1 million goal.

"We are pleased with it," said Choy.

The GCA will focus its initial funding on the College's construction engineering and management program.

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From left to right: Class of 1985 members Aaron Poentis, Gene Matsushige and Dave Nakahara capture the Fujio Matsuda Perpetual Trophy. The Class of 1971 also tied for the award.

The General Contractor's Association of Hawaii is a non-profit organization and has a membership of more than 600 firms from construction related industry.

Alumni tee off at golf tournament

Close to 200 engineering alumni members took a day off work and gathered at Waikele Golf Club to enjoy the sun, fun and fellowship provided by the 16th Annual Engineering Alumni Golf Tournament.

"Like other alumni functions, the annual golf tournament offers an opportunity for our alumni to get together and show support for the College," said Interim Dean Reginald Young.

Keith Matsunaga, tournament chairman, said the event was a success due to the hard work put in by the College's staff and students. He gave special thanks to Carrie Matsuzaki for coordinating the event and to Lesly Takemoto for solliciting monetary and prize donors.

"We gave away more than $12,300 worth of prizes," Matsunaga said. Included in the prizes were seven free trips to the mainland, neighbor islands and Asia.

Matsunaga attributed the good alumni turnout to the strength of the Alumni Association. Alumni golfers were divided into four flights, according to their golf experience and ability. Daryn Arakaki was the winner of the Dean's Perpetual Award with his overall low net score of 60.

The classes of 1971 and 1985 tied for the President Fujio Matsuda

Please see Alumni. . ., page 2

GCA supports program in construction management

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The local construction industry wants to help develop a solid program that will provide civil engineering students with the necessary background in construction management.

Each year, the local construction industry recruits between 15 to 20 civil engineering students to fill its management positions. Presently, local students have the necessary background in civil engineering but lack training in construction management.

The GCA hopes that the availability of a more complete education in construction engineering and management will steer local talent into this sub-discipline of civil engineering.

"We want a program that is geared toward our industry," Choy said.

For the 1994 calendar year, the GCA will grant the College $100,000 for the salary of a new instructor and lecturers from the local construction industry.

The College is currently searching for a full-time instructor in construction engineering and management, to begin teaching both undergraduate and graduate classes in the Spring 1994 semester.

"We are looking for someone with at least 10 years of experience in Hawaii's construction industry, who has knowledge of current computer software used for managing and keeping track of the projects as they progress, and of construction methods for buildings and highways," said Harold Hamada, civil engineering department chairman.

The College and the GCA will work closely in the selection of the new instructor, whose practical experiences should speed up the learning curve of civil engineering students and shorten the period of their on-the-job training.

According to Hamada, a solid program in construction engineering and management requires at least three full-time instructors. Currently, Dr. Amarjit Singh is the only instructor in the civil engineering department who has background in construction management.

Therefore, even with the addition of a new instructor funded by the GCA, the department will continue to work towards securing a third faculty position in this field.

The civil engineering department plans to offer three courses in construction engineering and management next semester. They are CE 472 *Construction Management*, CE 474 *Construction Estimating & Bidding* and CE 696 *Cost Engineering*.

Over the years, Hawaii constractors have contributed millions to the training of highly skilled field workers who do the "front line" work for the construction incustry. While skilled workers are important to the industry's success, the importance of construction managers cannot be overlooked.

Alumni tee off at 16th annual golf gournament

Daryn Arakaki proudly displays the Dean's Perpetual Award.

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Perpetual Trophy. Each class had a net score of 197. The class of 1971 consisted of Cyril Hamada, Myron Nomura and Cary Shimamoto; while Gene Matsushige, Dave Nakahara and Aaron Poentis made up the team for the class of 1985.

The Alumni Association thanks the following donors and sponsors of this year's golf tournament:

- Janice Agena, Meadow Gold
- Y. Ebisu & Associates
- EDP Hawaii
- Engineering Concepts
- First Hawaiian Bank
- Steven Fong
- Stanley Fujimoto
- Fukunaga & Associates
- Gentry Hawaii
- Gray, Hong, Bills & Associates
- Corky Yoshina, GTE Mobilnet
- Cyril Hamada
- Hawaii Geotechnical Group
- Hawaii Pacific Engineers
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- Ralph Hayashi
- Hyatt Resorts
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- Kukui Molokai/Kaluakoi Hotel and Golf Club
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- Kyotaru Restaurant
- Mark Development
- Gene Matsushige
- Randolph Murayama & Associates
- Outrigger Hotels Hawaii
- Panda Travel
- Royal Kaanapali Golf Course
- Sam's Club
- Servco Pacific
- Shimabukuro, Endo and Yoshizaki, Inc.
- Ben Taguchi
- Masaru Tamura
- Waikapu Golf Course
- Waikele Golf Club
- Richard Wong, Royal Hawaiian Shopping Center
- David Yogi
- Nathan Yoshioka, Pro/Am Golf Shop

College hosts 1994 ASCE Regional Conference

John Katahira

Civil engineering students have something big to look forward to: the 1994 ASCE Pacific Southwest Conference, to be hosted by the College right here in Hawaii.

"Many students don't realize what the entire conference is about," said 1994 Conference Chairman John Katahira, who was part of the College's winning concrete canoe team that took first-place in canoe design last spring.

Since the past ASCE conferences have always taken place on the mainland, each year the College could afford to send only a handful of upperclassmen to participate in the canoe competition, one of the conference's several events.

Mainland schools, on the other hand, usually send both upperclassmen and lowerclassmen to the conference. As a result, the knowledge and experience gained from each conference gets passed on from year to year.

"I'd like to see our younger students involved in the conference so that we can establish a tradition that will carry on for the years to come," Katahira said.

The 1994 conference will provide a great opportunity for all civil engineering students to get involved. It will take place from March 30 to April 2, with most of the events on Manoa campus. About 300 students and faculty advisors from 17 schools in Arizona, Nevada and Southern California will travel to Hawaii for the conference.

The 4-day conference will include the following events:

- Concrete Canoe Display/ Judging/Races
- Steel Bridge Building/Judging
- Matchstick Bridge
- Technical Paper
- Impromptu
- Quiz Meet
- Volleyball
- Banquet
- Executive Breakfast

The Concrete Canoe event includes four parts: finished canoe, design paper, poster board display, and race competition.

According to Katahira, students enrolled in the capstone design course CE 490 will be designing and building a steel bridge for the conference. On the day of competition, each school team will start from unassembled steel material, while following specific competition rules. The team that builds the strongest bridge in the shortest amount of time will win the competition.

The Matchstick Bridge competition serves two purposes. First of all, it replaces the Popsicle Bridge competition held in the past, which requires all teams to bring their own popsicles. The conference committee decided to use matchsticks instead of popsicles, in order to make travelling easier for the mainland school teams.

In addition, this competition will be open not only to ASCE student chapters but to local high school students as well. By inviting high school students to participate, the conference committee hopes that the event will attract and educate prospective students interested in civil engineering, much like what the Engineering Expo has accomplished in the past.

For the Impromptu event, each team will be given a surprise assignment to build something within specific parameters, using materials assigned by the conference committee. The team with the most creativity and speed will likely be the winner.

Please see ASCE, page 5

About 300 students and faculty advisors from 17 schools in Arizona, Nevada and Southern California will travel to Hawaii for the 1994 ASCE Pacific Southwest Regional Confernece.

Instructor needed for ENGR 400

In an effort to produce top graduates who are ready for careers in engineering, the College has recently implemented a new elective course to help smooth the transition from student to practicing engineer.

The new course, ENGR 400, will prepare engineering seniors for professional advancement by accelerating the development of skills and qualities essential to good engineers.

The course covers a variety of topics including the role and responsibility of engineers, professional practice, communication skills, planning process, elements of design, contracts, technical specifications, total quality management and the sectors of practice.

Students enrolled in the course will learn about the engineering profession from the course instructor(s) as well as guest speakers from the local engineering community. In addition, students will work on technical cases as groups to learn about teamwork. Both oral presentation and written report will be required for each technical case analysis.

The College is looking for qualified individuals to serve as course instructors and guest speakers. Candidates should possess a minimum of three years of experience in business/industry, preferably with management experience. Qualified instructors may teach the course either individually or as a team.

For more information on the course or the teaching position, please contact Sheryl Nojima at the College of Engineering, 2540 Dole St., Holmes Hall 240A, Honolulu, HI 96822. Tel. 956-7426.

Spring 1993 College of Engineering Dean's List

Luanne E. Aburamen
Eric M. Agena
Jocelyn K. Akana
Roger C. Aoki
Christopher K. Asano
Leonard K.Y. Asano Jr.
Keith M. Asato
Neil M. Asato
Wendy M. Asato
Chi Shing Au
Steven K. Bauer
Thai Vinh Cao
Christopher A. Casuga
Alan N.F. Chan
Tin Chi K. Chan
Lon Shao Chang
Paulette B.L. Chang
Sean M. Chinen
Sharen H. Cho
Cyril S.L. Choy
Carl S.P. Chun
Garrett K. Chun
Clifford R. Cordeiro
William T. Dawson
Michael D. Domion
Mary Ann B. Esteban
Clifton J. Funakura
Charisse M. Fukuda
Michael H. Furoyama
Hazel S. Guico
Steven Haban
Martin Han
Neil S. Hasegawa
Justin T. Higuchi
William W.W. Hong
Linda H.L. Hu
Gan Chong Huang
Gavin T. Hubbard
Karen M. Ikeda
Jayson A. Imai
Loreena C.W. Johnsson
Kent H. Kanja
Kevin D. Kasamoto
Robin A. Kasamoto
Jay M. Katano
Jamin D. Kau
Ayako Kawabata
Emmett J.K. Kinney
Su Iong Kio
Ryan S. Kohagura
Kourtney K. Kono
Denton A. Kort
Lisa K. Koshimizu
Michael R. Lambert
Linda S.N. Lau
Woo Wai Lau
William S. Lawrey
Gregory A. Lee
James J.W. Lee
Justin K. Lee
Grace M.Y. Leung
Die Ren Li
Ze Ji Li
Zi Jian Lin
Kwok Fai Lo
Thomas B.Y. Louie
Christopher S. Luanglat
Thomas A. Luczak
Darryl C.L. Lum
Kevin E. Matsumoto
Mia M.M. Minami
Kevin T. Mori
Cey H. Murakami
Darin S. Murayama
Joy M. Murayama
Duane H. Nagata
Clay J. Naito
Mark A. Nakagawa
Mikel K. Nakamoto
Eric B. Nakamura
Glen E. Nakamura
Mike S. Nakamura
Pamela K. Nakanishi
Steven L. Nguyen
Thao Ngoc Nguyen
Eric T. Ogata
Scott M. Ojiri
Lance T. Okai
Michael T. Onuma
Keith T. Oshiro
Philip Panquites IV
Sheryl L. Pauly
Vinh Quang Pham
Neil T. Rapues
Rafael A. Rivera
Jennifer A. Sakaba
Sherri S. Sakihara
John G. Sannicolas
Shane K. Sato
Todd J. Shishido
Chun Yip Siu
Tracy R. Smith
Mark A. Sora
Richard J. Sullivan
Alicia K. Suyama
Eric N. Suzuki
Christina M. Szabo
Terrence K. Tadaki
Kathie L. Takai
Anna S.P. Tam
Glenn K. Tamashiro
Matthew A. Tamashiro
Richard H. Tanaka
Ryan K. Tanaka
Christopher V. Tang
Shawn E. Tasaka
Carol K. Tengan
Amanda Tse
Fern R. Tsukada
Wayne T. Tuulima
Glen S. Uehara
Jansen J. Uyeda
Steven E. Valin
Ken S. Van Orman
Cory K. Waki
Hye Jin K. Warren
Cary T. Watanabe
Lucy P.Y. Wong
Sai Tak Wong
Szeming Wong
Colin A. Wright
Meina Xu
Ryan S.W. Yamauchi
Reidly Ken Yogi
Darin M. Yokoyama
Kara L.S. Yoshina
Jon K. Yoshinaga
Tie Yu

KCC offers pre-engineering program

Beginning this fall, the Kapiolani Community College (KCC) will offer a new pre-engineering program to its students.

This pre-engineering program, already available at the Honolulu and Leeward Community Colleges, will prepare KCC students for upper division course work at the College of Engineering.

Each year, the College receives about 30 to 40 transfer students from the community colleges. Dr. Deane Kihara, Assistant Dean, said transfer students are as likely to succeed as students who start out at the College.

Kihara added that since many engineering instructors at the community colleges are graduates from the College, they are familiar with the College's degree requirements.

Currently, KCC is offering two courses required by the College. They are Physics 170/170L *General Physics I* and EE 150 *Introduction to Computer Programming Methods.*

More engineering courses are planned to be offered next semester. They will include PHYS 272 *General Physics II*, EE 120 *Introduction to Microprocessors &Lab Design*, and CE 113 *Introduction to Computers & Design.*

Kihara held a workshop at KCC earlier this fall to talk about the College's requirements and transfer process. About 25 prospective students attended this informative workshop.

Facility houses computer equipment

A view of the College's main computer facility at Holmes Hall 244

For those who may not already know, all students, faculty and staff of the College of Engineering have access to a collection of computer hardware and software provided by the college.

Holmes 244, the College's main computer facility, houses most of the College's computer equipment. The central computer system is an HP 9000/870 called "wiliki," which is accessible through terminals in Holmes 244, via the campus network or by modem.

The following is a list of hardware currently available at the computer facility:

- 8 VT100 compatible terminals to wiliki
- 2 HP Graphics terminals to wiliki
- 10 HP 9000/425 Workstations
- 14 Apple Macintoshes
- 8 IBM PS2 Model 70s
- 2 Laser printers
- an optical scanner for IBM PS2
- a line printer
- a HP 7550A Plotter

Also available is an extensive collection of software to complement the above hardware items. For a list of software available for use, please check with the computer facility.

In addition, the wiliki features electronic mail and the College's Information System. Students can utilize these features to communicate with professors or to receive information on the latest announcements from the College or the departments, regarding important affairs such as advising and job interviews.

A lab monitor will be on duty whenever the facility is open. The monitor will answer simple questions about use of the system or certain utilities. Students can also send questions by electronic mail to "consult" if they are not physically present at the facility. The Information System contains write-ups specific to the facility's computing environment.

For more help, attend the training courses organized by the College. These courses cover various aspects of system operation and different software packages. Details on the computer courses will be available through the Information System or on the bulletin boards around Holmes Hall.

The computer facility's hours of operation are as follows:

- Monday through Thursday - 10:30 a.m. to 8 p.m.
- Friday - 10:30 a.m. to 5 p.m.
- Saturday - 9 a.m. to 5 p.m.
- Sunday - 12 p.m. to 5 p.m.

The facility is closed on Holidays. For more information, please contact the computer facility at Holmes 244, Tel. 956-6076.

ASCE

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The next event "Quiz Meet' will cover short civil engineering questions as well as other trivial pursuit questions. After the quiz, participants will enjoy a banquet dinner at the Hilton. Plans and changes for next year's conference will be discussed at the Executive Breakfast the next morning, before the Canoe Races begin in the Ala Wai Canal.

Even though a large part of the planning has been completed, more preparation will keep the conference committee busy until next year. Currently, the committee is working on conference rules and sending out complete information packets to the different schools, as well as finalizing some of the event locations.

About 15 students are actively involved in the planning of the conference. However, more student participation is needed to ensure a successful conference.

"We will need students to help. We cannot do it with just 10 to 15 people.

"Our biggest challenge is to try and draw as many students in as possible at a good pace, so that we can keep the production at the highest level," Katahira said.

He believes that hosting the conference will benefit the College and its students in many ways for the years to come, especially if the UH team wins the regional competition and qualifies for the nationals.

Competing against the country's very best teams will be a wonderful educational experience and will allow the team to gain new ideas for the following year's conference, Katahira said.

The conference committee welcomes students interested in helping out with or participating in the 1994 conference. In addition, the committee expresses much appreciation to companies such as Hawaiian Cement, Jorgensen Steel & Aluminum and O.K. Hardware for their generous support.

In order to host a successful ASCE Pacific Southwest Regional Conference next year, the conference committee needs every civil engineering student to get involved with the event.

Faculty Highlights

NEW APPOINTMENTS

Sean Moroney

The civil engineering department welcomes visiting Assistant Professor Sean Moroney. Dr. Moroney holds a doctorate in engineering mechanics from the University of Illinois at Chicago and a master's degree in physics from Manhattan College. His doctoral thesis was entitled "Mechanical Properties and Muscle Force Analyses of the Lower Cervical Spine." He is currently director of the Windward Analytical Consulting Center, which provides clinical, educational and computer programming consultations. He also teaches computer science and mathematics at the Hawaii Pacific Univesity. In his spare time, he enjoys reading. He is teaching CE 270 *Applied Mechanics I* and CE 370 *Mechanics of Materials I*.

Shlomo Orr

A specialist in hydrology, Dr. Shlomo Orr recently joined the civil engineering department as an assistant professor. He received a doctorate from the University of Arizona and a master's degree from the University of Hawaii. His previous experiences include research and consulting work with the Water Resources Research Center. Born in Israel, Orr lists folk dancing and classical music among his interests. He is teaching CE 627 *Groundwater Hydrology*.

Duke Perreira

The mechanical engineering department welcomes Dr. Duke Perreira, a visiting associate professor from Lehigh University in Bethlehem, Pennsylvania. An expert on machine dynamics, Perreira obtained his doctorate from the University of California at Los Angeles and his master's degree from Rensselear Polytechnic Institute. Originally from the Big Island, Perreira enjoys body surfing and boogie boarding in his free time. He is teaching ME 360 *Computer Methods in Engineering* and ME 371 *Mechanics of Solids*.

Sean Moroney

Shlomo Orr

Duke Perreira

Amarjit Singh

Greg Uehara

Ben Yoshino

Amarjit Singh

Dr. Amarjit Singh, assistant professor of civil engineering, obtained a doctorate in construction engineering management from Purdue University and a master's degree from Texas A&M University. He was previously an assistant professor of construction engineering management at the North Dakota State University and has provided consulting services to various engineering firms. A native of India, Singh's hobbies include walking, hiking and meditation. He is teaching CE 696 *Analysis of Construction Operations*.

Greg Uehara

The electrical engineering department welcomes Assistant Professor Greg Uehara. A specialist in IC design for communication systems, Dr. Uehara holds a doctorate and a master's degree from the University of California at Berkeley. He has previously worked for Intel Corporation and CMOS Design Group. Born and raised in Kaneohe, Uehara likes to play golf, exercise, and listen to contemporary gospel and jazz music. He is teaching EE 693C *Advanced Analog Integrated Circuit Design*.

Ben Yoshino

The College has hired Ben Yoshino as an Educational Specialist to instruct student/staff users on the various programs available in the College's main computer facility. Yoshino received his bachelor's degree in electrical engineering from the University of Hawaii and is currently pursuing his master's degree. Previously a teaching assistant for the electrical engineering department, Yoshino says he wants to teach others whatever he can and that he enjoys helping people. His hobbies include playing video games, tennis and swimming.

RESEARCH HIGHLIGHTS

Yu-Si Fok

Civil engineering Professor Yu-Si Fok has been granted a U.S. Patent for his invention "Ocean Depth Reverse Osmosis Fresh Water Factory." Dr. Fok has collaborated with Dr. Sushil Gupta of India to invent this desalination factory, which operates by lowering sets of vessels from a floating platform into the ocean depth to extract fresh water. The vessels are constructed or laminated in part with reverse osmosis elements. Once filled with fresh water, the vessels are lifted individually from the ocean depth by a mechanical system to a predetermined elevation above the sea surface, to facilitate the delivery of the extracted fresh water to a coastal water transportation system. Fresh water is delivered via a valve at the bottom of each vessel, which is also connected to a water delivery pipeline. This invention can also be used to extract fresh water from lakes and other bodies of water, to treat industrial waste water, and to supply fresh water for submarines.

Lloyd Hihara

A 1990 Presidential Young Investigator Award recipient, mechanical engineering Assistant Professor Lloyd Hihara received continued base and matching grants from the National Science Foundation. This PYI award is in support of his project entitled "Corrosion of Metal-Matrix Composites (MMCs)." The goals of his research are to identify corrosion mechanisms of MMCs and to develop methods that can be used to make MMCs more resistant to corrosion. MMCs are metals that are reinforced with graphite and silicone carbide fibers. Because of their superior strength, stiffness and lightweight, MMCs are often used in the construction of aircraft, spacecraft and sports equipment. However, the same fibers that make MMCs strong and stiff also leave them more vulnerable to corrosion than metals without reinforcement. Hihara's research will address this problem and produce methods that will make MMCs safer and more economical for a variety of applications.

Ronald Knapp
Mehrdad Ghasemi Nejhad

The National Science Foundation has granted funding in support of "Student Rehabilitation Engineering Projects," a joint project by mechanical engineering Associate Professor Ronald Knapp and Assistant Professor Mehrdad Ghasemi Nejhad. The project will support development of adaptive devices for the disabled by integrating design elements into ME 481/482 courses. Students taking these courses will develop a design project from concept to prototype in a period of two semesters.

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Faculty Highlights

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The Rehabilitation Hospital of the Pacific will provide advisory support to student groups concerning device requirements and human design factors. Proposals, reports, cost estimates, calculations and drawing packages will be part of the standard curriculum. Engineering procedures, policies and master schedules will be maintained throughout the project.

Anthony Kuh

Anthony Kuh, Associate Professor of electrical engineering, received continued funding from the National Science Foundation for his Presidential Young Investigator Award project. Entitled "Analysis of Neural Network Models," this project allows Kuh to analyze the capabilities of various neural network models as well as to explore applications of these models in signal processing and speech recognition. Kuh has focused especially on the study of theoretical learning models where the concept to be learned changes with time.

Patrick Phelan

Mechanical engineering Assistant Professor Patrick Phelan has received a research initiation award from the National Science Foundation, in support of his project entitled "Thermal Boundary Resistance in Thin-Film High-Temperature Superconductors." This project is also funded by the Office of Naval Research through the Young Investigator Program. Phelan is investigating the thermal boundary resistance (Rbd) occurring at the interface between high-temperature superconducting thin films and their substrates. The magnitude of Rbd determines in large part the voltage response of superconducting bolometers and light-activated switches, along with the noise-equivalent-power of bolometers. Through a series of experiments, Phelan expects to gather information that will greatly benefit the design and operation of electronic and opto-electronic devices constructed from thin-film high-temperature superconductors.

Junku Yuh

Assistant Professor of mechanical engineering Junku Yuh received continued funding from the National Science Foundation for his Presidential Young Investigator Award project entitled "Underwater Robotics." In the undersea environment, remotely operated vehicles are currently used for various work assignments such as inspection, data collection, construction, maintenance and repairing undersea equipment. The primary focus of Yuh's research is on the dynamic modeling and intelligent control system design for underwater robotic vehicles. As the use of such vehicles is increased and operator training and reliability become important elements in the economic equation, the development of vehicles having greater autonomy becomes highly desirable. The control system is one of the most critical subsystems to increase autonomy of the vehicle.

ENGINEERING ALUMNI UPDATE

Name_____

Address _____ Phone Bus ( )_____

City _____State_____ Zip Code_____Res ( )_____

Employer/Company_____

JobTitle/Description_____

Year Graduated (BS)_____ Major (CE, ME, EE?) _____ Graduate degrees_____

News about children, marriages, promotions, hobbies, travel, etc.

If you want to join the Engineering Alumni Association or pay your 1993 dues, please use this form. Annual membership rate is $10/year. Annual membership rates for the University of Hawaii Alumni Assocation are: Oahu: New Graduate - $25, Single - $35, Couple - $45. Mainland/Neighbor Islands: Single - $20, Couple - $30. Rates for Single and Couple Life Members are $500 and $800, respectively. $10 of whatever category you choose will go to the Engineering Association for dual membership. Make your check payable to Engineering Alumni Association and mail to P.O. Box 12204, Honolulu, HI

Alumni News

1950s

David Yokoyama (CE 51) works for the MLA Associates as a project manager. He resides in Honolulu. ●**Tamateru Kodama** (CE 52) is vice president of Ralph S. Inouye Co. Ltd. He lives in Aiea. ●**Megumi Kon** (CE 52) is president of his company Megumi Kon, Inc. on the Big Island. ●**Edward Hirata** (CE 56) is vice president of planning of Hawaiian Electric Co., Inc. He is a resident of Kaneohe. ●**Susumi Miyashiro** (CE 56) is a physical testing engineer at the State of Hawaii Department of Transportation. He lives in Honolulu. ●**George Nishimura** (CE 56) is president and structural engineer of Nishimura, Katayama, Oki and Santo, Inc.

1960s

●**Raymond Shiroma** (CE 62) is a civil engineer of the U.S. Air Force. He lives in Mililani. ●**Herbert Inouye** (CE 63) works for the Ralph S. Inouye Co. Ltd. as vice president. He resides in Kailua. ●**Stanley Murakami** (CE 64) is a project manager at the State of Hawaii - Public Works Division. ●**Kay Muranaka** (CE 64) works at the Engineering Concepts, Inc. as vice president. He lives in Honolulu. ●**Harold Miura** (EE 65) is president of Harold H. Miura, Inc. He makes his residence in Hilo. ●**Hugh Ono** (CE 65) works for the State of Hawaii - Highways Division as project engineer-Hawaii. He also lives in Hilo. ●**Dennis Kanemura** (EE 66) resides in Aptos, California, where he works for Radix Technologies as vice president of operations. ●**Wayne Tomoyasu** (CE 66) holds the position of project coordinator at the State of Hawaii Department of Accounting & General Services. ●**Randolph Murayama** (ME 67) is president of R. Murayama & Associates. ●**Michael Yamasaki** (CE 68) is an associate at Dames & Moore. ●**Dennis Hanatani** (CE 69) resides in Honolulu and is president of Dennis K. Hanatani, Inc. ●**Gary Link** (EE 69) makes his residence in Downingtown, Pennsylvania where he works as a

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Alumni News

program manager at Boeing Helicopter Co. ●**Larry Ogawa** (EE 69) says his family enjoys the Pacific Northwest. He lives in Tacoma, Washington and is employed by the U.S. Air Force, McChord Air Force Base as deputy base civil engineer.

1970s

●**Hiram Young** (CE 72) works for the State of Hawaii Department of Land and Natural Resources as a civil engineer. He lives in Honolulu. ●**Cleighton Goo** (CE 73) is chief engineer of the State of Hawaii HCDA. ●**Masanobu Fujioka** (CE 73) is a managing partner at Masa Fujioka & Associates. ●**Stanley Ho** (CE 77) is director of public works engineering at Camp Butler, Okinawa, Japan. ●**Glenn Okada** (CE 77) works for the Department of Public Works in the County of Hawaii. He lives in Hilo. ●**Wendell Dang** (EE 78) resides in Simi Valley, California and works for the Rockwell International - Rocketdyne Division as an instrumentation engineer. ●**James Sone** (EE 78) is a senior engineer at GTE Hawaiian Tel. ●**Edward Sun** (EE 78) works for the Hewlett-Packard Company as a senior representative. He resides in Honolulu. ●**Bert Yamamoto** (CE 78) works at EDP Hawaii. He makes his residence in Honolulu.

●**Melvin Arakaki** (CE 79) is a program manager for the U.S. Army Corps of Engineers. He is a resident of Fairfax, Virginia.

1980s

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